

Certification



PRODUCT NAME: TheraPure® Bz rA Phosphoramidite
PRODUCT NUMBER: 27-1903-00
LOT NUMBER: SI1012
BULK NUMBER: SG0019
DESCRIPTION: 5'-O-Dimethoxytrityl-N⁶-benzoyl-2'-O-TBDMSi-adenosine-3'-O-(β-cyanoethyl-N,N-diisopropyl) phosphoramidite
CHEMICAL FORMULA: C₅₃H₆₆N₇O₈PSi
FORMULA WEIGHT: 988.2 g/mol
CAS NUMBER: 104992-55-4
STORE: -20°C
SHIP: Ambient
EXPIRATION DATE: 07/24/2021

ANALYSIS

Value	Specification	Observed Value
Appearance	White to pale yellow powder	Pass
Appearance	Color intensity of the powder must not exceed Pantone #P1-4U or #P4-2U	Pass
Solution Clarity	0.2M solution in acetonitrile is free from undissolved particulate	Pass
HPLC Purity (at 255 nm)	≥ 99%	100%
	Unknown single impurity ≤ 0.4%	Pass
	Non-critical single impurity: None > 0.5%	Pass
	Single critical impurity ≤ 0.4%	Pass
	Sum of critical impurities ≤ 1%	Pass
Identification by UV Spectrum	From 200-350 nm, the maxima and minima of the sample and standard spectra are within ± 2 nm	Pass
M-11 Impurity	≤ 0.01%	Pass
³¹ P NMR Purity	≥ 99%	100%
	Sum of non-primary peaks at 140-152 ppm is ≤ 0.5%	0.0%
	No single impurity > 0.3% in the range of 140-152 ppm	None > 0.3
	Sum of non-primary peaks at 5-35 ppm is ≤ 1.0%	0.0%
	No peak(s) above 170 ppm	Pass
Water Content	≤ 0.3%	0.1%
Residual Solvent	≤ 3.0% total % by weight solvent residue	0.8%
Material Origin (TSE/BSE)	No known animal-derived materials were used in the manufacture of this product	Pass

Thermo Fisher Scientific
2202 N. Bartlett Avenue
Milwaukee, WI 53202-1009 U.S.A.
Customer Service Telephone: 1-877-886-7629
Email: mke.csm@thermofisher.com

Use of this product for the synthesis of polynucleotides may require a license from a third party. It is the responsibility of the purchaser of this product to determine the necessity of obtaining such a license and acquiring the same. No license is granted to the purchaser either directly, by implication, estoppel or otherwise.

Revision 13